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SOUTH AUSTRALIAN SOCIETY OF MODEL
& EXPERIMENTAL ENGINEERS

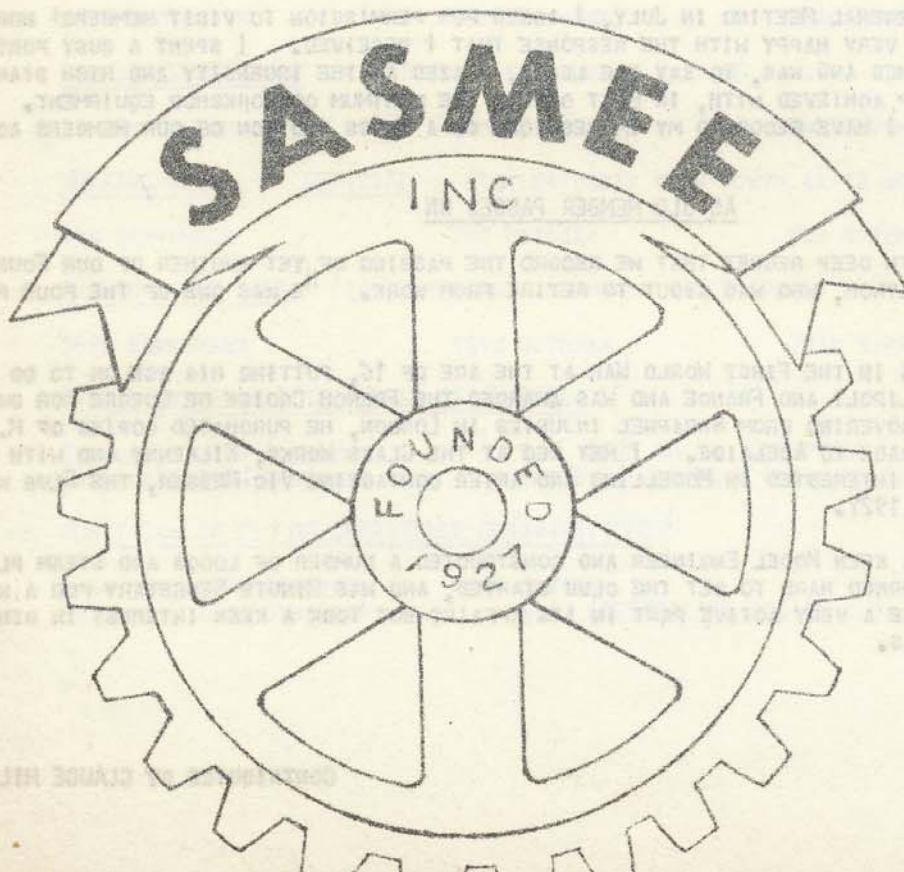
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S A S M E E

BULLETIN

THE OFFICIAL JOURNAL OF THE SOUTH AUSTRALIAN SOCIETY

OF MODEL AND EXPERIMENTAL ENGINEERS.



EDITORIAL

IT IS PLEASING TO RECORD THAT THE PUBLIC ATTENDANCE ON FIELD DAYS HAS NOT BEEN ADVERSELY AFFECTED BY THE INCREASE IN ADMISSION CHARGES. DESPITE THE SEASON THE JUNE & JULY MEETINGS HAVE BEEN WELL UP TO AVERAGE ATTENDANCES AND IT IS VERY GRATIFYING TO THE COMMITTEE THAT THIS IMPORTANT STEP HAS MET WITH SUCCESS. NO DOUBT THE INCREASED ATTRACTIONS AT THE PARK HAVE PLAYED A BIG PART IN THE RESPONSE OF THE PUBLIC. I FEEL SURE THAT WE CAN EXPECT RECORD CROWDS WITH THE APPROACH OF WARMER WEATHER AND THIS MAKES THE COMPLETION OF SAFETY FENCES AND OTHER ITEMS ALL THE MORE IMPORTANT.

EVERY MEMBER WILL BE CONCERNED WITH ANOTHER ATTACK OF VANDALISM THAT OUR EQUIPMENT HAS SUFFERED RECENTLY. FORTUNATELY, THE LOSS IS RECOVERED BY INSURANCE BUT THERE STILL REMAINS THE INCONVENIENCE AND NEEDLESS TROUBLE CAUSED BY THESE SENSELESS ACTS AND ANY PRACTICAL IDEAS FOR THE PREVENTION OF THIS TROUBLE WILL BE APPRECIATED BY EVERYBODY.

AT THE GENERAL MEETING IN JULY, I ASKED FOR PERMISSION TO VISIT MEMBERS' WORKSHOPS AND WAS VERY HAPPY WITH THE RESPONSE THAT I RECEIVED. I SPENT A BUSY FORTNIGHT AT VARIOUS HOMES AND WAS, TO SAY THE LEAST, AMAZED AT THE INGENUITY AND HIGH STANDARD OF WORKMANSHIP ACHIEVED WITH, IN MOST CASES, THE MINIMUM OF WORKSHOP EQUIPMENT. ON ANOTHER PAGE, I HAVE RECORDED MY IMPRESSIONS OF A CROSS SECTION OF OUR MEMBERS ACTIVITIES.

AN OLD MEMBER PASSES ON

IT IS WITH DEEP REGRET THAT WE RECORD THE PASSING OF YET ANOTHER OF OUR FOUNDATION MEMBERS, REG LYNCH, WHO WAS ABOUT TO RETIRE FROM WORK. HE WAS ONE OF THE FOUR FOUNDERS OF SASMEE.

ENLISTING IN THE FIRST WORLD WAR AT THE AGE OF 16, PUTTING HIS AGE ON TO DO SO, HE SERVED IN GALLIPOLI AND FRANCE AND WAS AWARDED THE FRENCH CROIX DE GUERRE FOR OUTSTANDING BRAVERY. RECOVERING FROM SHRAPNEL INJURIES IN LONDON, HE PURCHASED COPIES OF M.E. AND BROUGHT THEM BACK TO ADELAIDE. I MET REG AT THE GLASS WORKS, KILKENNY AND WITH ERIC BOWES, BECAME INTERESTED IN MODELLING AND AFTER CONTACTING VIC MESSER, THE CLUB WAS FORMED IN MAY 1927.

REG WAS A KEEN MODEL ENGINEER AND CONSTRUCTED A NUMBER OF LOCOMOTIVES AND STEAM PLANT. ALTHOUGH HE WORKED HARD TO GET THE CLUB STARTED, AND WAS MINUTE SECRETARY FOR A WHILE, HE DID NOT TAKE A VERY ACTIVE PART IN ITS AFFAIRS BUT TOOK A KEEN INTEREST IN OTHER MEMBERS' MODELS.

CONTRIBUTED BY CLAUDE MILLER.

QUARTERLY AGENDAGENERAL MEETINGS (2ND TUESDAY EACH MONTH AT 8.00 P.M.)

14TH SEPTEMBER

DR. J. MANNAM OF UNIVERSITY OF ADELAIDE
WILL SPEAK ON AIR BEARINGS AND THEIR AP-
PLICATION. THIS IS AN EXTREMELY INTER-
ESTING SUBJECT AND IS PRESENTED BY AN EXPERT.

12TH OCTOBER

JUMBLE SALE. BRING ALONG YOUR UNWANTED
MATERIALS ETC. AND HELP TO SWELL THE CLUB'S
FUNDS.

9TH NOVEMBER

CLAUDE MILLER WILL GIVE US ONE OF HIS EVER
WELCOME TALKS ON WORKSHOPS PRACTISE AND TOOL
MAKING. THIS WILL PROVE OF GREAT ASSISTANCE
TO MEMBERS WHO ARE NOT CONNECTED WITH THE
ENGINEERING TRADE.

INTERMEDIATE MEETINGS (4TH TUESDAY EACH MONTH AT 8.00 P.M. (INFORMAL))

28TH SEPTEMBER

26TH OCTOBER

23RD NOVEMBER

COMMITTEE MEETINGS (1ST TUESDAY EACH MONTH AT 7.30 P.M.)

7TH SEPTEMBER

5TH OCTOBER

2ND NOVEMBER

WORKING BEES - OFFICIAL - (1ST SATURDAY EACH MONTH AT 12 NOON)

4TH SEPTEMBER

2ND OCTOBER

6TH NOVEMBER

PUBLIC FIELD DAYS (3RD SATURDAY EACH MONTH 2-5.00 P.M.)

18TH SEPTEMBER

16TH OCTOBER

20TH NOVEMBER

VISITS BY MEMBERS TO PLACES OF INTEREST

TUESDAY, 26TH OCTOBER
SATURDAY, 27TH NOVEMBER

S.A. GASS CO - BROMPTON (EVENING)
THE NEWS AND MAIL PRINTING OFFICE (EVENING)

FUNCTIONS IN AID OF CHARITABLE ORGANISATIONS

SATURDAY, 30TH OCTOBER
SATURDAY, 11TH DECEMBER

ROTARY
B.P. (AUSTRALIA) SOCIAL CLUB.

CANTEEN ROSTERGENERAL CLUB MEETINGS (TUESDAY NIGHTS)SEPTEMBER

D. WHITE
R. STEPHENS

OCTOBER

B. GREENSLADE
B. SMITH

NOVEMBER

M. TURNER
H. PEARCE

FIELD DAYS (3RD SATURDAY EACH MONTH)

R. SKEWS
A. SYMER

H. PERIN
R. JACKSON

K. MIDDLETON
H. PEARCE

RESERVES

J. SPRY
C. MILLER (PHONE 46.1520)

NEWS ITEMS FROM INTERSTATE CLUBSSURREY HILLS STEAM LOCOMOTIVE SOCIETY

THEIR LATEST BULLETIN ADVISES THAT THE MOORABBIN COUNCIL HAS OFFERED THE CLUB A BLOCK OF LAND ABOUT A MILE EAST OF NEPEAN HIGHWAY TO LAY A TRACK. THE COMMITTEE FEELS THAT THE SITE IS AN EXCELLENT ONE AND COULD ACCOMMODATE 2,000 - 3,000 FEET OF TRACK, CLUB HOUSE AND ALL THE USUAL AMENITIES. WE AT SASMEE WISH YOU ALL THE BEST WITH THE PROJECT AND WILL WATCH YOUR PROGRESS WITH GREAT INTEREST. MEMBER BILL MORRISH HAS A TRACK FOR SALE PLUS A TRUCK. ALSO PARTS FOR 'HELIAN LASSIE' PART FINISHED. COLLIN CAMPBELL WANTS A 3½" LOCO.

WHYALLA SOCIETY OF MODEL ENGINEERS

IN THEIR LATEST CHEERY AND HUMOROUS BULLETIN, THE BOYS UP NORTH ADVISE THAT THEY HAVE GIVEN IT THE RATHER UNUSUAL TITLE OF 'THE ASH PAN', ONE OF THE BLESSINGS OF DEMOCRACY I SUPPOSE.

PLANS ARE AFOOT FOR A LONGER TRACK AND BOAT POND, PROVIDING THEY CAN GET HOLD OF SOME WATER TO PUT IN IT. I NOTICE THAT THE LATEST MODERN COMPLAINT 'DIESELEPSY' HAS GAINED A FOOTING AT WHYALLA. THE BUILDER IS THE FIRST MEMBER TO HAVE A LOCO ON THE TRACK. IS HISTORY REPEATING ITSELF?

SYDNEY SOCIETY OF MODEL ENGINEERING LTD.

THEIR LATEST EDITORIAL RAISES THE EXCELLENT SUGGESTION OF FOUNDING IN THE CLUB HOUSE, A MUSEUM FOR THE PRESERVATION OF OLD MODELS. THERE ARE PROBABLY A NUMBER OF FORGOTTEN EXAMPLES OF PATIENT AND SKILFUL WORK TUCKED AWAY IN ODD CORNERS WHICH, WITH SLIGHT RESTORATION, COULD STILL DELIGHT THE OBSERVER'S EYE.

1ST OCTOBER SEES THE OPENING DAY OF THE 'ANNUAL MODEL RAILWAY EXHIBITION' AT THE SYDNEY LOWER TOWN HALL. IT SHOULD CREATE GREAT PUBLIC INTEREST AND PROVE OF IMMENSE VALUE TO ALL MODEL ENGINEERING CLUBS. SASMEE WISHES IT EVERY SUCCESS.

ITEMS FROM INTERSTATE CLUBS - CONT'DTHE QUEENSLAND SOCIETY OF MODEL & EXPERIMENTAL ENGINEERS

THE ARTICLE 'WORKSHOP NOTES' BY BOB KIMBER, OFFERS MUCH FOOD FOR THOUGHT ON THE LAYOUT OF MEMBERS' HOME WORKSHOPS AND MUCH VALUABLE ADVICE IS TENDERED. THE DESCRIPTION OF A 4 WAY TOOL HOLDER SHOULD HELP ONE TO CONSTRUCT THIS VERY USEFUL LATHE FITTING. (SASMEE MEMBERS SEE SECRETARY FOR DETAILS)

SYDNEY LIVE STEAM LOCOMOTIVE SOCIETY

WE HAVE RECENTLY HAD THE PLEASURE OF A FLYING VISIT BY GEO. MACKELLAR, SECRETARY OF SYDNEY LIVE STEAMERS. HE EXPRESSED THE WISH THAT SASMEE WOULD BE WELL REPRESENTED NEXT EASTER TO SEE THE OPENING OF THEIR TRACK. HARRY PEARCE, OUR HOST, MET MACK AT THE ADELAIDE STATION AND SHOWED HIM AROUND AND IN THE EVENING HE ATTENDED THE COMMITTEE MEETING.

NEWS ITEMS IN BRIEF

A LETTER FROM PAUL GRISOTI SAID THAT HE IS ON THE SICK LIST. I HAVE NOT SEEN PAUL FOR SEVERAL WEEKS SO CANNOT SAY IF HE HAS RECOVERED. IF NOT, WE ALL WISH YOU A SPEEDY RECOVERY AND HOPE TO SEE YOU WITH US SOON.

TOM ENGLAND ALSO HAS HAD A SPELL OF ILLNESS BUT HE ASSURES ME THAT HE IS O.K. NOW.

MAX DUNKLEY RAN INTO TROUBLE WHEN AN INFECTED ANKLE CAUSED HIS ABSENCE FROM WORK. HE IS NOW O.K. AND BACK ON THE JOB AGAIN.

FRANK EARL HAS QUITE RECOVERED FROM HIS BUSTED RIBS.

HERB CROOKER, IN HIS INIMITABLE MANNER, DID AN EXCELLENT JOB IN COMPILING A RECORD OF SASMEE HISTORY UP TO OUR GREAT EASTER OPENING DAY. THIS WAS FORWARDED TO THE EDITOR OF MODEL ENGINEER PLUS A SELECTION OF PHOTOGRAPHS AND WE ALL HOPE TO SEE IT IN PRINT IN THE NEAR FUTURE. 'A FIRST CLASS JOB' HERB.

A WORD OF THANKS TO JOHN WAKEFIELD FOR THE USE OF HIS TRUCK FOR TRANSPORTING A NUMBER OF CONCRETE BEAMS USED FOR WALLING.

I RECENTLY HAD THE OPPORTUNITY TO INSPECT AND SEE A DEMONSTRATION OF 'AIR BEARINGS' AT THE UNIVERSITY, THROUGH THE GOOD OFFICES OF ARTHUR SYMES. THIS EXTREMELY INTERESTING SUBJECT WILL BE EXPLAINED IN A TALK AT THE GENERAL MEETING 14TH SEPTEMBER, BY DR. MANNAM.

THE ATTENTION OF MEMBERS IS DRAWN TO TWO IMPORTANT DATES:

SATURDAY, 30TH OCTOBER - WHEN ROTARY WILL USE SASMEE FACILITIES TO ENTERTAIN A NUMBER OF CHILDREN.

SATURDAY, 11TH DECEMBER - A SIMILAR FUNCTION BY B.P. (AUSTRALIA) SOCIAL CLUB.

PLEASE ROLL UP AND HELP MAKE THEM A SUCCESS!

RETURNING FROM WHYALLA ON THE QUEEN'S BIRTHDAY HOLIDAY, MURRAY MITCHELL HAD THE MISFORTUNE TO BE INVOLVED IN A CHAIN ACCIDENT WITH HIS CAR. BAD LUCK MURRAY. FORTUNATELY, NO ONE WAS INJURED.

NEWS IN BRIEF CONT'D

AT THE LAST GENERAL MEETING, IT WAS DECIDED THAT BRAKES ON RIDING TRUCK AND A STANDARD TYPE OF COUPLING BE MADE COMPULSORY IN THE INTEREST OF SAFETY.

BE SURE TO KEEP OCTOBER 26TH AND NOVEMBER 27TH (EVENINGS) OPEN FOR OUR VISITS TO THE GAS COMPANY AND NEWS AND MAIL OFFICE. A LARGE ATTENDANCE IS REQUESTED.

AFTER SEVERAL HEADACHES AND QUITE A LOT OF HARD WORK, OUR WORTHY PRESIDENT HAS SOLVED THE PROBLEMS OF COAL CRUSHING. BY THE TIME YOU READ THIS, MOST OF YOU WILL HAVE SEEN THE CRUSHER HE HAS CONSTRUCTED. JOHN HAS DONE A GOOD JOB AND ALL THE LOCO MEN THANK HIM. ALL WE NEED NOW IS AN ELEVATOR TO THE COAL BIN ???

GLEN HEATH DESERVES SPECIAL MENTION FOR THE PART HE HAS PLAYED AS PHOTOGRAPHER. WE HOPE SOON TO SEE SOME OF HIS WORK IN M.E.

MACK OF SYDNEY LIVE STEAMERS ADVISES THAT HE HAS STOCKS OF BA NUTS AND BOLTS (10, 8, 7, 6, 5, 4) PRICE 18/- GROSS.

IAN RICHARDSON OF MELBOURNE GAVE A BRIEF TALK ON THE DIAMOND VALLEY SOCIETY MODEL RAILWAY AT THE GENERAL MEETING ON 10TH AUGUST.

CLAUDE MILLER REPORTS THAT VIG MESSER'S LOCO G.E. TYPE HAS BEEN PRESENTED TO THE GLENELG CITY COUNCIL TO BE PRESERVED IN THE PIONEER MUSEUM AT THE GLENELG TOWN HALL.

I HAVE JUST RECEIVED A LETTER FROM ERN CLARK OF BENDIGO. HE INVITES SASMEE MEMBERS TO A SPECIAL WEEKEND AT EDDINGTON ON THE 18TH SEPTEMBER AND 19TH SEPTEMBER RUNNING PLUS RAILWAY FILMS, BARBEQUE FACILITIES AND CAMPING AT DUD SMITH'S SHOULD MAKE THE TRIP WORTHWHILE.

ANNUAL SHOW OF WORK

ALTHOUGH THE NUMBER OF EXHIBITS WAS NOT LARGE, SOME VERY INTERESTING MODELS WERE DISPLAYED. ON THE MEMBERS' VOTE, KEN MIDDLETON'S NEAR COMPLETED 'BUTCH' IN 5" GAUGE GAINED 1ST PLACE. KEN HAS CERTAINLY MADE A SPLENDID JOB OF HIS LATEST EFFORT AND WE WILL WATCH WITH INTEREST, ITS PERFORMANCE ON THE TRACK.

RUNNING A CLOSE SECOND WAS JOHN MOORFIELD WITH HIS COMPLETED WA X CLASS NARROW GAUGE DIESEL IN 3½" GAUGE. JOHN DESERVES GREAT CREDIT FOR THE WORKMANSHIP AND FINISH HIS MODEL POSSESSES.

FRANK EARL WITH HIS 3½" GAUGE TEN TO EIGHT, INSIDE 2 CYL. 4.4.0 AND BOB SMITH MODELLING SAR 520 CLASS 3½" GAUGE TIED FOR 3RD PLACE. BOTH SHOULD PROVE VERY INTERESTING TO FOLLOW TO THEIR FINISHED AND TESTED STATE.

MARTIN LAIRD SHOWED A PARTICULARLY INTRIGUING MODEL IN VIRGINIA IN 3½" GAUGE. THE OLD TIME LOCOS HAVE AN INTEREST AND CHARM ALL OF THEIR OWN AND MARTIN IS TO BE CONGRATULATED ON HIS CHOICE. HE HOPES TO HAVE HIS FIRST RUN BY CHRISTMAS.

NEW MEMBERS

A WARM WELCOME IS EXTENDED TO MALCOLM BURKE, JOHN MELL AND ROBERT SEVER WITH THE WISH THAT YOU WILL ENJOY MANY HAPPY HOURS OF MODELLING AND MAKE NEW FRIENDS.

THE SPEED CAR TRACK

IN OUR NEW MEMBER, ROBERT SEVER, IT WOULD APPEAR THAT THE CAR TRACK HAS RECEIVED A SHOT IN THE ARM. ON SATURDAY, 14TH AUGUST, I NOTICED BOB TRYING OUT HIS CAR AND CLEANING UP THE GUIDE RAILS. THIS SPECTACULAR SIDE OF OUR ACTIVITIES HAS BEEN SADLY NEGLECTED LATELY AND A REVIVAL OF INTEREST IS VERY WELCOME. PERHAPS OTHERS POSSESSING CARS CAN BE PERSUADED TO TAKE THEM OUT OF MOTHS BILLS AND FURTHER CREATE PUBLIC INTEREST. IN VIEW OF THE TWO CHARITY DAYS COMING UP SOON, THE REVIVAL WOULD BE VERY OPPORTUNE.

THE BOAT POND

ACTIVITY AMONG THE BOY BOYS HAS BEEN AT A LOW EBB (NO PUN) LATELY. PERHAPS WITH THE COMING OF WARMER WEATHER, WADING IN 15" OF COLD WATER WILL BECOME MORE MORE ATTRACTIVE. OUR COLOURFUL FLEET IS ONE OF OUR MAJOR ATTRACTIONS, BOTH FOR YOUNG AND OLD, SO WHAT ABOUT A MINIATURE REGATTA NEXT FIELD DAY?

IN PASSING BOB SEVER (SEE ABOVE) IS ALSO INTERESTED IN A RADIO CONTROLLED CABIN CRUISER.

HYDROPLANE SPEEDS ARE RISING, WATCHING NORM'S LATEST LAST FIELD DAY, HE TOLD ME THAT HE IS UP TO 50 MPH.

AMONGST THE SMOKE AND STEAM

SO MUCH HAS BEEN WRITTEN ABOUT THE LOCO TRACK IN THE PAST, THAT IT IS RATHER DIFFICULT TO SAY SOMETHING ORIGINAL, SO AS THIS PARTICULAR BULLETIN MAINLY CONCERNS PERSONALITIES, A FEW WORDS ABOUT OUR DRIVERS WILL NOT COME AMISS. RAIN OR HAIL, THEY ARE ALWAYS ON THE JOB ON FIELD DAYS TO PROVIDE FOR THE PUBLIC THAT WHICH IS OUR MAIN ATTRACTION. TRAIN RIDES FOR THE CHILDREN. NOTHING SEEMS TO DISMAY THEM. IF TROUBLE DEVELOPS, BACK TO THE STEAMING UP BAY AND IF POSSIBLE EFFECT REPAIRS AND BACK IN TRAFFIC AGAIN. TO MY MIND, OURS IS THE ONLY HOBBY WHICH ASKS SO MUCH AND RECEIVES SUCH AN INSTANT RESPONSE. BUT LET US NOT FORGET THE MEMBERS WHO ACT AS OFFICIALS AT THE TRACK, HELPING THE PASSENGERS ON AND OFF, CONTROLLING THE TRAFFIC, SUPPLYING WATER AND COAL AND ALL THOSE WHO KEEP EVERYTHING RUNNING SMOOTHLY.

AMAZING WHAT THE SMELL OF SMOKE AND STEAM WILL DO.

A LOOK AT A MODEL ENGINEER'S WORKSHOP

THE FOLLOWING IS A BRIEF DESCRIPTION OF VARIOUS MEMBERS' WORKSHOPS I HAVE RECENTLY VISITED.

ALAN (UNCLE) FRANKHAM HAS AN AMAZING WOODWORKING SHOP, COMPOSED OF INGENIOUS MACHINES DESIGNED AND CONSTRUCTED BY HIMSELF. ALAN TOLD ME THAT HE PUTS THEM TO A PROFITABLE USE, APART FROM HIS MODELLING. AT THE MOMENT HE IS BUSY CONSTRUCTING 'BRITANNIA' IN 3 1/2" GAUGE. FRAMES, WHEELS AND CYLINDERS ARE WELL ADVANCED. LIKE MOST MODELLERS, HIS MAIN EQUIPMENT IS A LATHE (MYFORD ML7). ALAN SHOWED ME A SPEED CAR WHICH HAS COVERED A LARGE MILEAGE. HE HAS ALSO CONSTRUCTED A 2 STROKE PETROL ENGINE. A VERY FINE PIECE OF WORK. ALAN IS CERTAINLY A VERSATILE ENTHUSIAST.

DAVID WORRALL, A NEW MEMBER (FITTER & TURNER BY TRADE) POSSESSES A WORKSHOP ANYONE WOULD BE PROUD OF. A DRILLING MACHINE (HIS OWN MANUFACTURE) BEAUTIFULLY FINISHED, A 4 1/2" HERCULES LATHE AND VERTICAL SLIDE (HOME MADE) ARE THE MAIN EQUIPMENT, PLUS A COMPREHENSIVE SELECTION OF HAND TOOLS.

A LOOK AT A MODEL ENGINEER'S WORKSHOP

TAP AND DIES, EVERYTHING HAS ITS PROPER PLACE ON SHELVES AND IN DRAWERS. DAVID IS ALSO BUILDING 'BRITANNIA' IN $3\frac{1}{2}$ " GAUGE. HIS WORKMANSHIP IS FIRST CLASS, DENOTING THE SKILLED TOUCH. FRAMES, WHEELS, CONNECTING RODS AND CYLINDERS ARE FINISHED. THIS LOCO SHOULD BE A GOOD PERFORMER, JUDGING BY THE CARE HE IS TAKING. HE IS ALSO INTERESTED IN PHOTOGRAPHY AND HAS SOME EXCELLENT CLOSE UPS OF LOCO VALVE GEARS. HE WOULD BE PLEASED TO SHOW THEM TO ANY INTERESTED MEMBER.

VISITING MAX DUNKLEY'S WORKSHOP WAS ONE OF THE HIGHLIGHTS OF AN INTERESTING FORTNIGHT. MAX WASN'T CALLED 'MODEL ENGINEER OF THE YEAR' FOR NOTHING. HIS TABLE ENGINE AND BEAM ENGINE ARE TRULY EXAMPLES OF MODELLING AT ITS BEST. MAX HAS ALSO CONSTRUCTED STATIONARY STEAM PLANT, A MAGNIFICENT TUG BOAT, SPEEDCARS AND MARINE ENGINES. HE HAS ALSO CONSTRUCTED ALL OF HIS WORKSHOP EQUIPMENT. THIS COMPRISES A MILLING MACHINE, DRILLING MACHINE, LATHE, WHICH INCORPORATES SOME VERY INGENIOUS FEATURES. MAX MAKES MOST OF HIS CUTTERS, TAPS AND DIES, INCLUDING A USEFUL RANGE OF SQUARE THREADS. HE SHOWED ME SOME OF HIS BOOKBINDING OF M.E. DONE WITH A HOME MADE PRESS. ONE COULD SPEND HOURS ADMIRING THE TERRIFIC OUTPUT OF MODELS MAX HAS DEVOTED HIS SPARE TIME TO OVER THE YEARS.

IN A LETTER FROM RON THOMPSON OF ALICE SPRINGS, HE GAVE ME A BRIEF DESCRIPTION OF HIS WORKSHOP. TO USE HIS OWN WORDS 'STARTING WITH BIG STUFF! 6' GUILLOTINE CUTTING UP TO $\frac{5}{8}$ " PLATE, 6' FOLDERS (UP TO 14 G STEEL) 3' GUILLOTINE CUTTING TO 18 G, JOHN HEINE FLY PRESS, 0"- $\frac{1}{2}$ " 'WALDOWN' BENCH DRILL, 8" PEDESTAL GRINDER, 3' ROLLERS UP TO 16G STEEL, E.M.F. PILOTAGE WELDER, OXY EQUIPMENT, 7" POWER HACKSAW AND 9" HERCULES LATHE, MODEL 'A'. WELL RON, YOU ARE CERTAINLY WELL SET UP NOT ONLY FROM A BUSINESS POINT OF VIEW, BUT FOR MODELLING YOU MAKE OUR MOUTHS WATER. WITH ALL THAT GEAR YOUR 7 $\frac{1}{4}$ " SHOULD BE A PIECE OF CAKE.

NORM KERNICK WAS THE NEXT VICTIM OF YOUR ROVING REPORTER. NORM TOLD ME THAT A SIMPLE WOODTURNING LATHE SET HIM ON THE ROAD OF MODEL ENGINEERING AND FROM WHAT HE SHOWED ME, HE HAS NOT LOOKED BACK. APART FROM HIS INTEREST IN HYDROPLANES AND BOATS, HE HAS BUILT A TELESCOPE, GROUND THE MIRROR (A VERY LENGTHY JOB) ALSO THE EYEPiece, CONSTRUCTED A PHOTOGRAPHIC ENLARGER, ARC WELDER AND CARBON ARC TORCH. HE ALSO TAKES A KEEN INTEREST IN PHOTOGRAPHY AND SHOWED ME SOME EXCELLENT SHOTS. IN HIS SPARE TIME HE BUILDS SMALL ELECTRIC MOTORS, STEAMPLANT FOR HIS BOATS AND TO TOP IT ALL, TURNS OUT HIS OWN CLO-PLUG ENGINES FOR HIS VERY SUCCESSFUL HYDROPLANES. HIS WORK SHOP EQUIPMENT CONSISTS OF A MYFORD LATHE, DRILLING MACHINE AND A VERY NICELY MADE VERTICAL SLIDE. WITH THIS, THE AVERAGE MODELLER'S EQUIPMENT, NORM TURNS OUT WORK WHICH THE OWNER OF A LAVISHLY EQUIPPED SHOP WOULD BE PROUD TO SIGN HIS NAME TO.

BOB SMITH OF DIESEL FAME, IS ALSO A GOOD ALLROUNDER. HIS INTERESTS RANGE A WIDE FIELD. FROM MODEL AIRPLANES, DESTROYER 'VENDETTA', CARGO BOAT, TORPEDO BOAT, HYDROPLANES, 'LADY NORRIE' DIESEL AND MOVING TOWARDS COMPLETION S.A.R. 520 IN $3\frac{1}{2}$ " GAUGE. ALL THESE PROJECTS ARE BUILT WITH THE AID OF A $3\frac{1}{2}$ " MYFORD LATHE PLUS A HOME-MADE VERTICAL SLIDE AND DRILLING MACHINE. HIS HAND TOOLS COMPRISE THE USUAL ASSORTMENT YOU WOULD FIND IN MOST HOME WORKSHOPS. BOB IS ONE OF OUR YOUNGER MEMBERS BUT HE IS CERTAINLY A VERY VERSATILE ONE.

WHEN I VISITED JOHN WAKEFIELD, I FOUND HIM IN THE MIDDLE OF WORKSHOP REBUILDING FOR HIS BUSINESS ACTIVITIES AND PUTTING ASIDE AN AREA FOR HIS MODELLING. APART FROM HIS EXTENSIVE ARRAY OF PLANT USED FOR PROFESSIONAL REASONS, A MYFORD ML7 LATHE TAKES PRIDE OF PLACE, PLUS A DRILLING MACHINE AND THE USUAL HAND TOOLS. WITH JOHN'S EXPERIENCE IN SHEET METAL WORK AND SILVER SOLDERING AND BRAZING, WE CAN EXPECT TO SEE SOME VERY FINE BOILER AND PLUMBING WORK AS HIS LOCO TAKES SHAPE. WHEN I SPOKE TO HIM, JOHN WAS STILL DEBATING WHAT TYPE OF MODEL, BUT JUDGING FROM WORK HE HAS DONE AT SASMEE, WE CAN EXPECT A FIRST CLASS EXAMPLE OF THE MODELLER'S ART.

CONT'D

A BRIEF VISIT TO ALLAN BRAGHAM'S WORKSHOP REVEALED 'SPRINGBOK' NEARING COMPLETION. ALLAN HOPES TO HAVE IT RUNNING BY CHRISTMAS AND AFTER 5 YEARS OF WORK BUILDING IT, HE IS VERY KEEN TO HAVE 90 LBS. ON THE CLOCK. EQUIPMENT USED COMPRISES ML7 MYFORD LATHE, HOME MADE HAND SAW, (AMAZING THE NUMBER OF HOME-MADE MACHINES WE ALL SEEM TO POSSESS), A DRILLING MACHINE, (ALSO HOME-MADE) BENCH GRINDER AND OF COURSE, THE NECESSARY HAND TOOLS. ALLAN HAS A VERY NICE SET UP AND THE COMING YEARS SHOULD ENABLE HIM TO PRODUCE SOME OUTSTANDING WORK.

I HOPE THAT YOU HAVE FOUND THE FOREGOING DESCRIPTIONS OF VARIOUS MEMBERS' WORKSHOPS INTERESTING. I CERTAINLY DID, AND ENJOYED EVERY MINUTE OF IT. MANY THANKS TO THOSE I HAD THE PLEASURE OF VISITING. THE MAIN OBJECT I HAD IN MIND WAS TO ENABLE NEW MEMBERS TO DISCOVER THE INTERESTS OF OTHERS AND FORM A BASIS FOR TALKING OVER PROBLEMS WHICH THEY ENCOUNTER AND PROBABLY RECEIVE HELPFUL ADVICE.

IF YOU LIKE THIS FEATURE, PLEASE LET ME KNOW AND I WILL REPEAT IT NEXT BULLETIN.

THE CONSTRUCTION AND OPERATION OF WESTERN AUSTRALIAN GOVERNMENT RAILWAYS X CLASS DIESEL ELECTRIC LOCO (BUILT AT 1" TO 1 FT.)

HOW IT HAPPENED.

1. BOB SMITH SUCCESSFULLY DESIGNED AND BUILT A SMALLER $3\frac{1}{2}$ " GAUGE SA TYPE DIESEL LOCO WITH A VARIABLE FRICTION DRIVE POWERED BY A 30 CC ENGINE.
2. A FRIEND GAVE ME SOME PARTS OF A 50 CC TWO CYCLE ENGINE WHICH TURNED OUT TO BE SUITABLE FOR MOTIVE POWER.
3. HARRY PEAROE UNEARTHED PHOTOS OF WHAT LOOKED LIKE A SUITABLE LOCO TO MODEL. IT WAS A WESTERN AUSTRALIAN GOVERNMENT RAILWAYS X CLASS 4-8-4 DOUBLE ENDED NARROW GAUGE (3'6") TYPE.
4. A LETTER TO PAST MEMBER TOM ARMSTRONG NOW RESIDENT IN PERTH, RESULTED IN A SET OF 1" TO 1FT. METROPOLITAN VICKERS DRAWINGS OBTAINED FROM THE W.A. RAILWAYS.

WHAT WAS ACHIEVED

THE STAGE WAS NOW SET TO MAKE SOMETHING OF IT. HAVING A SET OF FULL SIZE DRAWINGS FOR THE MODEL IN $3\frac{1}{2}$ " GAUGE WAS A WONDERFUL HELP.

THE LOCO IS $4\frac{1}{4}$ " LONG ON THE BUFFER PLATES, WHEEL ARRANGEMENT IS 4-8-4, THE RIGID WHEELBASE WHEELS TAKING THE DRIVE.

BOGIES AND MAIN WHEELS ARE SUSPENDED ON FULLY COMPENSATED LEAF SPRINGS MADE FROM 95 FT. OF $\frac{3}{8}$ " x .014" TEMPERED SPRING STEEL, EACH SPRING HAS TWENTY-EIGHT LEAVES. MOTIVE POWER IS FROM THE 50 CC ENGINE WHICH IS MOUNTED HORIZONTALLY BETWEEN THE FRAMES AND TRANSMISSION, IS THROUGH AN INFINITELY VARIABLE FRICTION DRIVE TO A FINAL DRIVE SHAFT AND BEVEL GEARS ON ONE AXLE SHAFT, ALL FOUR AXLES ARE INTER-CONNECTED BY 8 M/M CHAIN AND SPROCKETS WHICH ARE INVISIBLE FROM OUTSIDE THE LOCO. POWER TRANSMISSION TO THE WHEELS HAS PROVED TO BE ADEQUATE AND SUCCESSFUL WITH VERY LITTLE LOSS THROUGH THE FRICTION DRIVE.

THE CHASSIS AND BOGIE FRAMES ARE CUT FROM 3/16 BRIGHT STEEL PLATE, THE CHASSIS BEING 4" DEEP. ALL CHASSIS COMPONENTS ARE TINPLATED WHICH GIVES A REALISTIC APPEARANCE, THIS WAS COMPLETED BEFORE FINAL ASSEMBLY.

THE TWO CABINS WERE FABRICATED OVER A WOODEN FORM BLOCK FROM 16 GAUGE SHEET COPPER, EACH CABIN WAS ASSEMBLED FROM 1/2 SECTIONS BUTTED AND SILVER SOLDERED TOGETHER, THE END RESULT HAS THE APPEARANCE OF A ONE PIECE PRESSING. AFTER METAL FINISHING THE INSIDE AND OUTSIDE OF THE CABINS, THEY WERE ONLY MIST-COATED WITH SELF ETCHING ZINC-CHROMATE AND TWO COATS OF LACQUER. SIDE PANELS AND ROOF ARE ROLLED FROM 16 GAUGE HARD ALUMINIUM AND SIMILARLY TREATED AS THE CABINS. THE ASSEMBLED BODY WORK IS VERY REALISTIC.

THE LOCO IS DRIVEN FROM THE REAR END BY TWO CONTROLS PROTRUDING THROUGH THE LOWER REAR CABIN PANEL, CONTROLS CONSIST OF A THROTTLE LEVER AND RATIO SELECTOR WHICH MAKES DRIVING EASY AND SIMPLE. WITH THE FRICTION WHEEL JUST OFF CENTRE AND ENGINE IDLING, THE LOCO WILL MOVE ITS LOAD AS SLOWLY AS ANY STEAM LOCO, WITH SPEED INCREASED TO FAST IDLE. A GRADUAL TAKE OFF IS ACHIEVED WHICH HAS ALL THE SOUND AND APPEARANCE OF FLUID DRIVE. AS TRACK SPEED INCREASES, THE RATIO AUTOMATICALLY INCREASES TO 1 TO 1 WITHIN APPROXIMATELY 20 YARDS AND ONLY THROTTLE MANIPULATION IS NECESSARY TO NEGOTIATE THE GRADIENTS OF OUR TRACK. FUEL CONSUMPTION LAST TRACK DAY WAS 1 1/2 PINTS FOR 3 1/2 HOURS WITH CONSTANT LOAD EQUAL TO 2 ADULTS AND 2 CHILDREN.

EXPERIMENTS ARE UNDER WAY WITH A HYDRAULIC DRIVE UNIT AND PRESENT INDICATIONS ARE FAVOURABLE AND ALL EFFORTS WILL BE MADE TO CARRY THIS TYPE OF DRIVE TO FINALITY.

STEAM RALLY AT ECHUCA

LAST QUEEN'S BIRTHDAY WEEKEND, A PARTY OF SIX OF OUR MEMBERS JOURNEYED TO ECHUCA TO ATTEND THE ANNUAL STEAM RALLY HELD THERE.

LEAVING ON SATURDAY MORNING, THE PARTY LOOKED UP IAN STEWART AND FOUND HIM OF COURSE, AT HIS STEAM PADDLE BOAT, THE 'ETONA'. IAN AND HIS SON GOT BUSY AND GOT A FIRE GOING UNDER THE BOILER SO THAT THE PARTY COULD HAVE A RUN AFTER LUNCH. IAN AND HIS COMPATRIOTS HAVE DONE A MAGNIFICENT JOB OF REBUILDING OF THE 'ETONA', THE HULL HAVING BEEN COMPLETELY REPLANKED, THE ENGINE RESTORED AND THE SUPERSTRUCTURE WELL ON THE WAY TO BEING COMPLETELY REBUILT. A MOST ENJOYABLE AFTERNOON WAS SPENT ON THE RIVER.

SATURDAY EVENING AT IAN'S HOME, STEAM ENTHUSIASTS FROM AS FAR A FIELD AS ADELAIDE AND MELBOURNE GATHERED FOR A GENERAL GET-TOGETHER. MANY INTERESTING FILMS AND SLIDES WERE SHOWN, NOT THE LEAST IMPRESSIVE OF WHICH WAS THE STORY OF THE REBUILDING OF THE 'ETONA'.

SUNDAY MORNING, DESPITE THE LOW TEMPERATURE AND FROST, A VISIT WAS PAID TO STAN HAZELMAN TO SEE THE PREPARATIONS FOR STEAMING SOME OF HIS RESTORED STEAM PLANT. TRACTION ENGINES, A STEAM TRUCK, STEAM ROLLER AND TWO PORTABLE ENGINES WERE BEING PREPARED FOR THE RALLY. STAN HAS A MOST REMARKABLE COLLECTION OF ENGINES OF ONE TYPE AND ANOTHER AND THIS IS BEING STEADILY ADDED TO.

DURING THE MORNING, IAN STEWART'S PORTABLE 3 1/2" G TRACK WAS ASSEMBLED AT THE SHOWGROUND SO THAT DURING THE AFTERNOON, MODEL LOCOS FROM BOTH ADELAIDE AND MELBOURNE COULD BE RUN.

THE RALLY WAS HELD IN MOST PLEASANT SURROUNDINGS DURING THE AFTERNOON AND SOME 4,000 PEOPLE ATTENDED. TRACTION ENGINES (BIG AND SMALL THANKS TO MARRIE TURNER) WERE DISPLAYED GOING THROUGH THEIR PAGES. SEVERAL PORTABLE ENGINES WERE RUNNING, THE 'INVICTA' STEAM WAGGON WAS UNDER STEAM. A PARADE OF VINTAGE CARS, INCLUDING A STANLEY STEAMER WHICH WAS A FURTHER INTERESTING FEATURE, WHILST OF COURSE, THE RAIL TRACK WAS IN ACTION AND GAINED THE APPROBATION OF THE YOUNGER FRY.

STEAM RALLY AT ECHUCA (CONT'D)

EVEN AN OLD 1910 VINTAGE TRACTOR GOT INTO THE ACT WITH MUCH BANGING AND RATTLING AS IT WADDLED ALONG.

FURTHER DRIVING OF THE RAG WENT ON ON SUNDAY EVENING SO THAT ON MONDAY, JOURNEYING BACK TO ADELAIDE, WE COULD LOOK BACK ON A MOST INTERESTING AND ENJOYABLE WEEK END.

BY KEN MIDDLETON



"There aren't many home workshops as completely equipped as Fred's"

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